

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 01102928 A

(43) Date of publication of application: 20.04.89

(51) Int. Cl. H01L 21/30  
H01J 37/09

(21) Application number: 62260838

(71) Applicant: NEC CORP

(22) Date of filing: 16.10.87

(72) Inventor: AKASA RIYOUJI

(54) APERTURE DIAPHRAGM

COPYRIGHT: (C)1989,JPO&Japio

(57) Abstract:

PURPOSE: To adjust perpendicularity of an aperture diaphragm without exchanging it by a method wherein two blade-shaped sheets used to obtain an electron beam of a rectangular cross section are not fixed by a welding operation and a very small amount of an angle formed by blade-shaped parts can be changed.

CONSTITUTION: One-side ends 5, 6 of movable materials 3, 4 are coupled to a fixed material 1 by using elastic deformation hinges 7, 8 which have circular-arc cut-out parts; blade-shaped parts 11, 12 are fixed individually to opposite ends 13, 14 of the movable materials in such a way that an angle formed by the blade-shaped parts can form nearly a right angle. In order to adjust perpendicularity of an aperture diaphragm, a screw 19 is turned. By adjusting this perpendicularity, a position of an intersecting point 22 of the two blade-shaped parts 11, 12 is shifted; a length of individual sides of a rectangular pattern is changed; this change can be corrected easily by using a shaping deflector which is situated between a first and a second aperture diaphragms.

